

WEEK 2

TASK 2

CODE :

```
import java.util.*;

interface PerformOperation {

    boolean check(int a);

}

class MyMath {

    public static boolean checker(PerformOperation p, int num) {

        return p.check(num);

    }

    // Logic to check ODD or EVEN

    public static PerformOperation isOdd() {

        return a -> a % 2 != 0;

    }

    public static PerformOperation isPrime() {

        return a -> {

            if (a <= 1) return false;

            for (int i = 2; i <= Math.sqrt(a); i++) {

                if (a % i == 0)

                    return false;

            }

            return true;

        };

    }


}
```

```

public static PerformOperation isPalindrome() {
    return a -> {
        int original = a, reverse = 0;
        while (a > 0) {
            reverse = reverse * 10 + a % 10;
            a /= 10;
        }
        return original == reverse;
    };
}
}

```

OUTPUT


Sample Test case 0

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Input (stdin)

1	5
2	1 4
3	2 5
4	3 898
5	1 3
6	2 12

Your Output (stdout)

1	EVEN
2	PRIME
3	PALINDROME
4	ODD
5	COMPOSITE

TASK 3

CODE:

```

import java.util.*;

public class Solution {

```

```
static void miniMaxSum(int[] arr) {  
    long totalSum = 0;  
    int min = arr[0];  
    int max = arr[0];  
  
    // Calculate total sum, min and max  
    for (int i = 0; i < arr.length; i++) {  
        totalSum += arr[i];  
        if (arr[i] < min) min = arr[i];  
        if (arr[i] > max) max = arr[i];  
    }  
  
    long minSum = totalSum - max;  
    long maxSum = totalSum - min;  
  
    System.out.println(minSum + " " + maxSum);  
}
```

```
public static void main(String[] args) {  
    Scanner sc = new Scanner(System.in);  
    int[] arr = new int[5];  
  
    for (int i = 0; i < 5; i++) {  
        arr[i] = sc.nextInt();  
    }  
  
    miniMaxSum(arr);  
    sc.close();  
}
```

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✓ **Sample Test case 0**

✓ Sample Test case 1

Input (stdin)

1 | 1 2 3 4 5

Your Output (stdout)

1 | 10 14

Expected Output

1 | 10 14

TASK 4

CODE :

```
import java.io.*;
import java.util.*;
class UserMainCode
{
public int isPalindrome(String input1)
{
    String str = input1.toLowerCase();
    int left = 0;
    int right = str.length() - 1;

    while (left < right)
    {
        if (str.charAt(left) != str.charAt(right))
        {
            return 1;
        }
    }
}
```

```
        left++;  
        right--;  
    }  
  
    return 2;  
}
```

✔ default

🕒 CODE EXECUTION DETAILS

Time: 206 ms

Memory: 57688 kb

🔗 TEST CASE INFORMATION

Input

MADam

Expected Output

2

Actual Output

2

TASK 5

CODE :

```
public int allDigitsCount(int input1)  
{  
    int count = 0;
```

```
while (input1 > 0)
{
    count++;
    input1 = input1 / 10;
}

return count;
}
```

OUTPUT

</> TEST CASE INFORMATION

Input

1015

Expected Output

4

Actual Output

4

TASK 6

CODE :

```
import java.io.*;
import java.math.*;
import java.security.*;
import java.text.*;
import java.util.*;
import java.util.concurrent.*;
```

```
import java.util.function.*;
import java.util.regex.*;
import java.util.stream.*;
import static java.util.stream.Collectors.joining;
import static java.util.stream.Collectors.toList;

class Result {

    public static String findDay(int month, int day, int year) {

        Calendar cal = Calendar.getInstance();

        cal.set(year, month - 1, day);

        int dayOfWeek = cal.get(Calendar.DAY_OF_WEEK);

        String[] days = {
            "SUNDAY", "MONDAY", "TUESDAY",
            "WEDNESDAY", "THURSDAY", "FRIDAY", "SATURDAY"
        };

        return days[dayOfWeek - 1];
    }

    public static void main(String[] args) throws Exception {

        Scanner sc = new Scanner(System.in);

        int month = sc.nextInt();
```

```
int day = sc.nextInt();  
int year = sc.nextInt();
```

```
String result = findDay(month, day, year);
```

```
System.out.println(result);
```

```
sc.close();  
}  
  
}
```

OUTPUT

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✓ Sample Test case 0

Input (stdin)

1	08 05 2015
---	------------

Your Output (stdout)

1	WEDNESDAY
---	-----------

Expected Output

1	WEDNESDAY
---	-----------

TASK 7

CODE :

```
import java.io.*;
```



```
import java.util.*;

public int totalHillWeight(int input1, int input2, int input3) {
    int totalWeight = 0;

    for (int level = 1; level <= input1; level++) {
        int stars = level;
        int weightPerStar = input2 + (level - 1) * input3;
        totalWeight += stars * weightPerStar;
    }

    return totalWeight;
}
```

OUTPUT

</> TEST CASE INFORMATION

Input

5,10,2

Expected Output

230

Actual Output

230

TASK 8

CODE :

```
public int sumOfSumsOfDigits(int input1) {  
  
    int total = 0;  
    int run = 0;  
  
    char[] arr = String.valueOf(input1).toCharArray();  
  
    for (int i = 0; i < arr.length; i++) {  
        run = run + (arr[i] - '0');  
        total = total + run;  
    }  
  
    return total;  
}
```

</> TEST CASE INFORMATION

Input

5,10,2

Expected Output

230

Actual Output

230
